

# Michael W. Lufaso

## PROFESSIONAL EXPERIENCE

2002 - present - National Institute of Standards and Technology - Gaithersburg, MD  
*National Research Council Postdoc (Ceramics Division)*  
1999 - 2002 Ohio State University - Columbus, OH  
*Research and Teaching Assistant for Dr. Patrick Woodward (Chemistry Department)*  
1997 - 1999 Ohio State University - Columbus, OH  
*Research Assistant for Dr. Anne McCoy (Chemistry Department)*  
1997 - 1998 Youngstown State University - Youngstown, OH  
*Research Assistant for Dr. Allen Hunter (Chemistry Department)*  
1995 - 1998 Youngstown State University - Youngstown, OH  
*Research Assistant for Dr. Larry Curtin (Chemistry Department)*

## EDUCATION

1998 - 2002 Ohio State University - Columbus, OH  
*Ph. D – Chemistry (Division: Inorganic)*  
1994 - 1998 Youngstown State University - Youngstown, OH  
*BS (Summa Cum Laude) – Chemistry (Minor: Mathematics)*

## PROFESSIONAL MEETINGS

2003 Center for Dielectric Studies, Attendee - State College, PA  
2003 Midwest High Temperature and Solid State Chemistry, Poster - East Lansing, MI  
2003 NICEST JINS Workshop, Poster - Oak Ridge, TN  
2002 Ohio Inorganic Weekend, Poster - Toledo, OH  
2002 International Union of Crystallography, Poster - Geneva, Switzerland  
2002 Gordon Research Conferences-Solid State Chemistry I, Poster - New London, NH  
2002 American Conference on Neutron Scattering, Poster - Knoxville, TN  
2002 Edward Hayes Graduate Research Forum, Talk - Columbus, OH  
2002 Materials Research Society, Poster and Talk - San Francisco, CA  
2001 Ohio Inorganic Weekend, Poster and Talk - Athens, OH  
2001 Pittsburgh Diffraction Society Meeting, Poster - Covington, KY  
2000 Gordon Research Conferences-Solid State Chemistry I, Poster - New London, NH  
2000 American Crystallographic Association, Poster and Talk-Minneapolis-St. Paul, MN  
2000 Pittsburgh Diffraction Society Meeting, Poster - Pittsburgh, PA  
2000 32nd ACS Central Regional Meeting, Poster - Covington, KY  
1999 Pittsburgh Diffraction Society Meeting, Poster - Columbus, OH  
1999 31st ACS Central Regional Meeting, Poster - Columbus, OH

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## AWARDS

National Research Council Postdoctoral Fellowship - 2002  
IUCr travel Award - US National Committee for Crystallography and NASA - 2002  
Ed Hayes Graduate Forum Award- Ohio State University- 2002  
Gold Graduate Student Award - Materials Research Society - 2002  
Ludo Frevel Crystallography Scholarship - Intl. Centre for Diffraction Data - 2002  
Chung Soo Yoo Award- Poster Presentation - Pittsburgh Diffraction Society - 2001  
Evans Poster Session Award - Ohio State University - 2000  
Chung Soo Yoo Award- Poster Presentation - Pittsburgh Diffraction Society - 2000  
University Fellowship - Ohio State University - 1998  
Honor's Degree - Summa Cum Laude - Youngstown State University - 1998  
Undergraduate Award in Analytical Chemistry - Youngstown State University -1998  
Hypercube Scholar's Award - Youngstown State University - 1998  
Ralph Yingst Scholarship-Inorganic Chemistry - Youngstown State University -1997  
University Scholarship - Youngstown State University - 1994 -1998  
OSAC Scholarship - State of Ohio -1994-1998

## PUBLICATIONS

1. S.-H. Byeon, M. W. Lufaso, J. B. Parise, P. M. Woodward, T. Hansen, *Chem. Mater.* 15 (2003) 3798 "High-Pressure Synthesis and Characterization of Perovskites with Simultaneous Ordering of both the A- and B-site Cations,  $\text{CaCu}_3\text{Ga}_2\text{M}_2\text{O}_{12}$  ( $M = \text{Sb}, \text{Ta}$ )"
2. M.W. Lufaso, P.M. Woodward, *Acta Cryst.*, B57, 725-738 (2001) "Prediction of the Crystal Structures of Perovskites Using the Software Program SPuDS"
3. A.B. McCoy, M.W. Lufaso, *J. Chem. Phys.* 108 (1998) 9651 "Reactions of Oxygen Atoms with van der Waals Complexes: The Effect of Complex Formation on the Internal Energy Distribution in the Products."
4. M.W. Lufaso, A.B. McCoy, *Chem. Phys.*, 239 (1998) 187 "Effects of Complex Formation on Reactions of Oxygen with HCl and Ar-HCl"
5. T.D. McCarley, M.W. Lufaso, L.S. Curtin, R. McCarley, *J. Phys. Chem. B.*, Vol. 102, No. 49,(1998) 10078. "Multiply Charged Redox-Active Oligomers in the Gas Phase: Electrospray Ionization Mass Spectrometry of Metallocenes"
6. C.C. Smith, J.M. Jacyno, K.K. Zeiter, P.D. Parkanzky, C.E. Paxson, P. Pekelnicky, J. S. Harwood, A.D. Hunter, V.G. Lucarelli, M.W. Lufaso, H. G. Cutler, *Tetrahedron Letters*, 1998,39 (37) 6617 "Nitration of Cyclopentenecarboxaldehyde: Studies Toward 1-Amino-2-Nitrocyclopentanecarboxylic Acid"

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## GRADUATE TEACHING ASSISTANTSHIPS

Chemistry 121 - General Chemistry I  
Chemistry 122 - General Chemistry II  
Chemistry 123 - General Chemistry III  
Chemistry 651 - Inorganic Chemistry I  
Chemistry 751 - Transition-Metal Organometallic Chemistry  
Chemistry 754 - Solid State Inorganic Chemistry

## ORGANIZATIONS

National Chemistry Week - Columbus, Ohio - (2000)  
Research and Graduate Council - Graduate Associate and Fellowship Committee -  
Ohio State University (1998)  
Council of Graduate Students - Ohio State University - (1998-9)  
Mack Award Committee Chemistry Department - Ohio State University - (1999-2001)  
Graduate Student Visitation Weekend - Ohio State University (1999-2002)  
American Chemical Society - Student Division (1995-1998)  
Youngstown State Centurians - Mathematics - (1995-1998)  
Golden Key National Honor Society - Youngstown State University  
Pi Mu Epsilon - COMAP International Mathematical Modeling Competition (1997-8)

## SPECIAL TRAINING

Summer Undergraduate Research Fellowship, Research Project Advisor- NIST (2003)  
Pair Distribution Function Analysis - Oak Ridge, TN (2003)  
FORTRAN 90 Workshop - Ohio Supercomputer Center (2001)  
Visual Basic and FORTRAN 77 Application Programming  
X-ray diffractometer (Bruker D8 Advance and Philips) maintenance and alignment  
System Administration - MS Windows and Red Hat Linux Platforms

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